

MEMORY STORAGE DEVICE WITH HEATING ELEMENT

Abstract

A memory storage device is provided that includes a storage cell having a changeable magnetic region. The changeable magnetic region includes a material having a magnetization state that is responsive to a change in temperature. The memory storage device also includes a heating element. The heating element is proximate to the storage cell for selectively changing the temperature of the changeable magnetic region of said storage cell. By heating the storage cell via the heating element, as opposed to heating the storage cell by directly applying current thereto, more flexibility is provided in the manufacture of the storage cells.